

Title (en)

Prioritization and flow control of a spread spectrum multiuser channel

Title (de)

Priorisierung und Flusssteuerung von Datenpaketen für einen Spreizspektrummehrbenutzerkanal

Title (fr)

Etablissement des priorités et régulation de flux dans un canal multi-utilisateurs à spectre étalé

Publication

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Application

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Priority

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Abstract (en)

The present invention provides a scheduling mechanism (74) for controlling packet data from multiple types of data sources (48-52), including data sources (48-52) having reroutable data and data sources (48-52) having non-reroutable data, the multiple types of data sources (48-52) flowing into a multiuser channel (56) in a wireless spread spectrum code division multiple access communication system, the mechanism (74) characterized by: a queue (54) associated with the multiuser channel (56) having an input configured to receive incoming packet data from a plurality of data source queues (48-52), the multiuser channel queue (54) outputting the received packet data for transmission over the multiuser channel (56); the plurality of data source queues (76-86), each data source queue (76-86) uniquely associated with each data source (48-52) and having an input configured to receive data from that queue's data source (48-52), each data source queue (48-52) capable of varying its capacity; and wherein the varying capacity of each data source queue (48-52) changes based on in part an availability of the multiuser channel queue (54).

IPC 1-7

H04L 12/56

IPC 8 full level

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CPC (source: EP KR)

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US 0013918 W 20000519; AT 00930830 T 20000519; AT 02006637 T 20000519; AT 02006638 T 20000519; AU 2003213538 A 20030717; AU 2007200320 A 20070125; AU 2008202350 A 20080528; AU 2934402 A 20020328; AU 2934502 A 20020328; AU 4858500 A 20000519; BR 0010731 A 20000519; BR 0014066 A 20000519; CA 2374355 A 20000519; CA 2414139 A 20000519; CA 2414144 A 20000519; CN 00807821 A 20000519; CN 02106600 A 20000519; CN 02106800 A 20020228; CN 200610099696 A 20000519; CN 200610099697 A 20000519; CN 200610099698 A 20000519; DE 00930830 T 20000519; DE 02006637 T 20000519; DE 02006638 T 20000519; DE 60003915 T 20000519; DK 00930830 T 20000519; DK 02006638 T 20000519; EG 20000646 A 20000517; EP 00930830 A 20000519; EP 02006637 A 20000519; EP 02006638 A 20000519; EP 08152967 A 20000519; ES 00930830 T 20000519; ES 02006637 T 20000519; ES 02006638 T 20000519; ES 08152967 T 20000519; HK 02104489 A 20020617; HK 02108233 A 20021113;

HK 02108797 A 20021203; HK 07107758 A 20070718; HK 07110199 A 20070919; HK 07110200 A 20070919; IL 14657100 A 20000519;
IL 14657101 A 20011119; IL 15144402 A 20020822; IL 15144500 A 20000519; IL 15144501 A 20011119; IL 17603306 A 20060531;
IL 18547407 A 20070823; IL 19749409 A 20090309; IL 20705810 A 20100718; JP 2000619945 A 20000519; JP 2002035905 A 20020213;
JP 2002035909 A 20020213; KR 20017014813 A 20011120; KR 20037013455 A 20031013; KR 20057016104 A 20050829;
MX PA01011772 A 20000519; MX PA02001581 A 20000519; MX PA02001582 A 20000519; MY PI20002166 A 20000517;
NO 20015618 A 20011116; NO 20020908 A 20020225; NO 20020909 A 20020225; NO 20100163 A 20100202; SG 200206973 A 20000519;
SG 2002069748 A 20000519; SG 2007035777 A 20000519